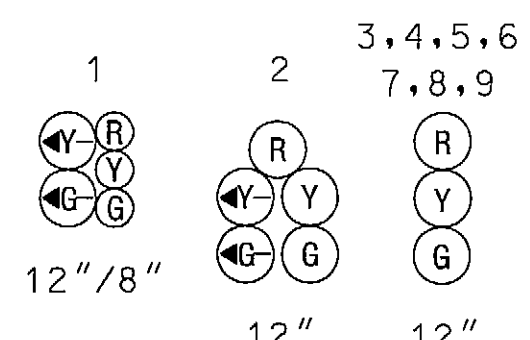
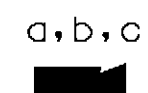




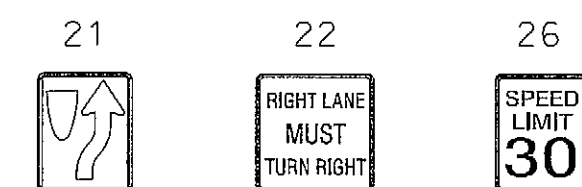
PROPOSED LED SIGNALS



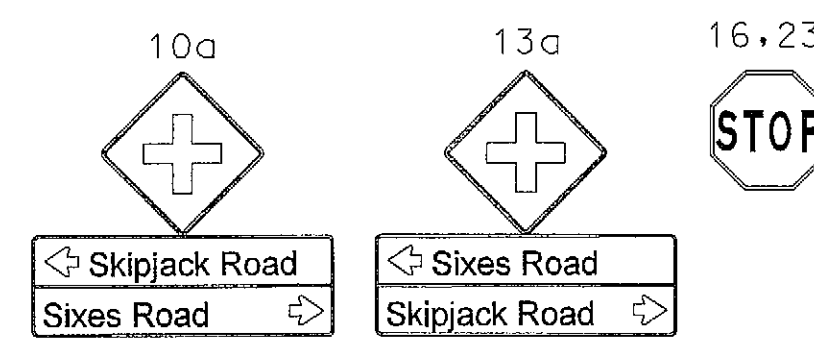
PROPOSED VIDEO DETECTION



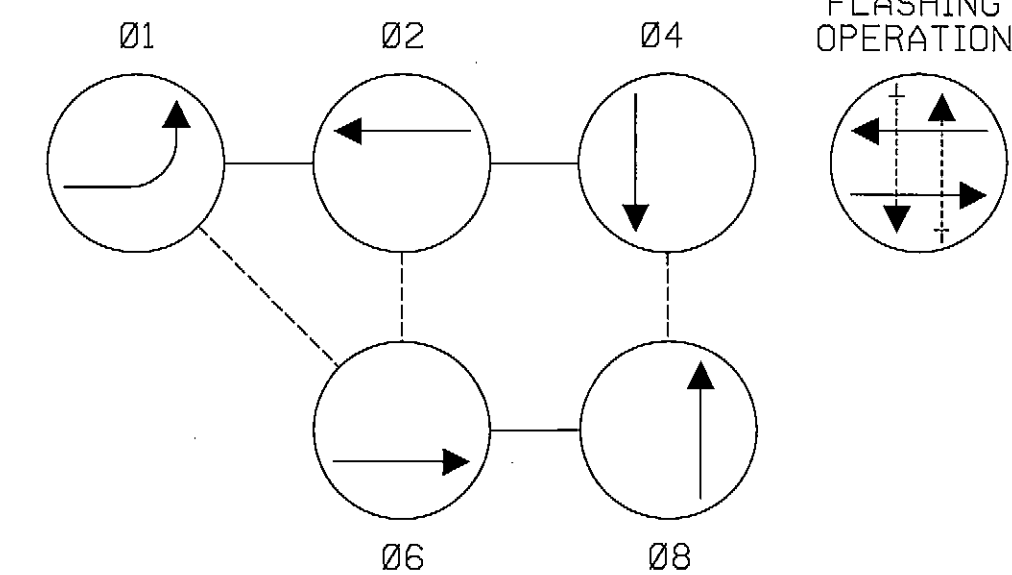
EXISTING SIGNS TO REMAIN



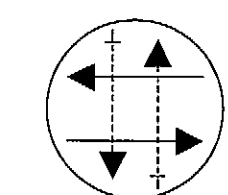
EXISTING SIGNS TO REMOVED



NEMA PHASING



FLASHING OPERATION



NOTE: PHASES ASSOCIATED BY A DASHED LINE MAY/WILL OPERATE CONCURRENTLY. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.

LINE HEIGHTS (LH-1)

COMMUNICATION 1:	16'-6"
COMMUNICATION 2:	17'-7"
COMMUNICATION 3:	17'-8"
COMMUNICATION 4:	21'-0"

LINE HEIGHTS (LH-2)

COMMUNICATION 1:	16'-0"
COMMUNICATION 2:	16'-8"
COMMUNICATION 3:	16'-10"
COMMUNICATION 4:	20'-8"

LINE HEIGHTS (LH-3)

COMMUNICATION 1:	18'-10"
COMMUNICATION 2:	18'-10"
COMMUNICATION 3:	19'-6"
COMMUNICATION 4:	22'-8"

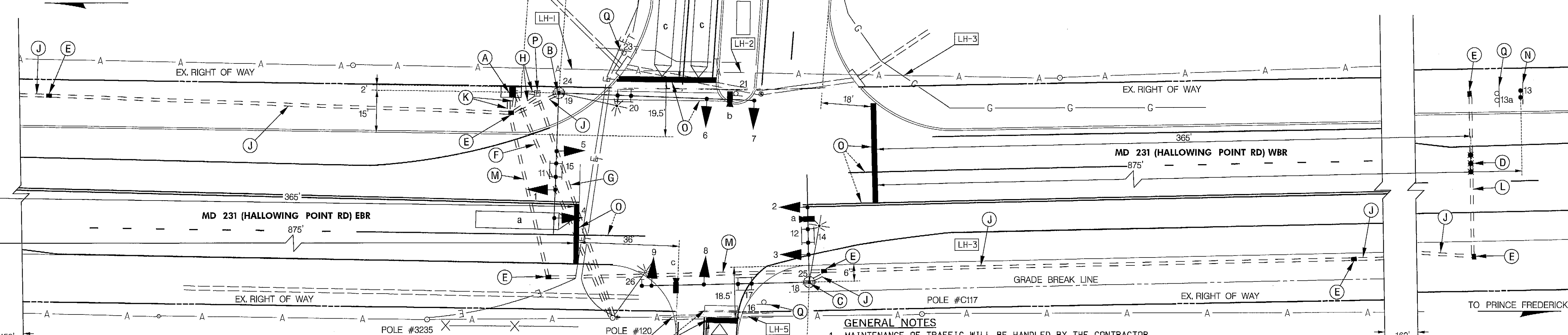
LINE HEIGHTS (LH-4)

COMMUNICATION 1:	17'-1"
SECONDARY:	22'-9"
PRIMARY:	23'-4"

LINE HEIGHTS (LH-5)

COMMUNICATION 1:	18'-1"
SECONDARY:	23'-7"
PRIMARY:	24'-4"

TO HUGHESVILLE



CONSTRUCTION DETAILS

- INSTALL NEMA SIZE "S" BASE MOUNTED CABINET AND CONTROLLER ON FOUNDATION WITH ALL NECESSARY EQUIPMENT (NOTE: 2-2 IN. AND 2-4 IN. 90 DEGREE PVC BENDS).
- INSTALL 27 FT. STEEL POLE WITH TWIN 50 FT. AND 70 FT. MAST ARMS, FOUNDATION, LED TRAFFIC SIGNAL HEADS, VIDEO DETECTION CAMERA, 20 FT. LIGHTING ARM WITH 250 WATT HPS LUMINAIRE, AND SIGNS. (NOTE: 1-3 IN. 90 DEGREE PVC BEND)
- INSTALL 27 FT. STEEL POLE WITH TWIN 60 FT. AND 50 FT. MAST ARMS, FOUNDATION, LED TRAFFIC SIGNAL HEADS, VIDEO DETECTION CAMERAS, 20 FT. LIGHTING ARM WITH 250 WATT HPS LUMINAIRE, AND SIGNS. (NOTE: 1-3 IN. 90 DEGREE PVC BEND) (NOTE: CUT MAST ARM FOR EB MD 231 TO 38 FT.)
- INSTALL NON-INVASIVE MICROLOOP PROBE SET.
- INSTALL ELECTRICAL HANDHOLE (SEE NOTE #9).
- INSTALL 2 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (BORED) - FOR PROPOSED UNDERGROUND TELEPHONE SERVICE. CAP AND MARK CONDUIT, AND LEAVE A 1 FT. STUB WITH PULL STRING AT UTILITY POLE FOR USE BY OTHERS.
- INSTALL 4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (BORED) FOR PROPOSED POWER SOURCE. CAP, MARK, AND LEAVE A 1 FT. STUB WITH PULL STRING AT BASE OF UTILITY POLE FOR USE BY OTHERS.
- INSTALL 2 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED).
- INSTALL 3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED).
- INSTALL 4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED).
- INSTALL 3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (BORED).
- INSTALL 4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (BORED).
- INSTALL GROUND MOUNTED SIGN AND ASSOCIATED FLAGS ON TWO 4 IN. X 6 IN. WOOD POSTS. DISTRICT 5 MAINTENANCE WILL REMOVE "NEW" SIGNS AND FLAGS THREE MONTHS AFTER INSTALLATION.
- REMOVE EXISTING PAVEMENT MARKINGS AND INSTALL 24 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKINGS FOR STOPLINE.
- INSTALL METERED SERVICE PEDESTAL (NOTE: 3-2 IN. AND 1-4 IN. PVC 90 DEGREE BENDS).
- REMOVE EXISTING GROUND MOUNTED SIGN AND SUPPORT.

UTILITY LEGEND

E	E	ELECTRIC CABLES	=====	STORM DRAIN
A	A	AERIAL CABLES	=====	GAS MAIN
T	T	TELEPHONE CABLES	=====	WATER MAIN
F	F	FIBER-OPTIC	=====	SEWER MAIN

GENERAL NOTES

- MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR UTILIZING MSHA STANDARD TYPICALS FOR TRAFFIC CONTROL.
- THE CONTRACTOR SHALL CONTACT MISS UTILITY TO VERIFY ALL UNDERGROUND UTILITIES PRIOR TO THE INSTALLATION OF PROPOSED SIGNAL EQUIPMENT. IF ANY UTILITY CONFLICTS ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
- WITHIN 36 IN. OF UNDERGROUND UTILITY LOCATIONS, THE CONTRACTOR SHALL BE REQUIRED TO EXCAVATE FOR FOUNDATION AND CONDUIT BY HAND.
- ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS, HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS, TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
- THE SHA SIGNAL SHOP WILL BE RESPONSIBLE FOR ALL INTERNAL CABINET WIRING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ROUTING AND PROPERLY LABELING ALL SIGNAL CABLES.
- THE CONTRACTOR SHALL VERIFY THE PROPOSED POLE AND CABINET LOCATION(S) PRIOR TO INSTALLATION.
- ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH MSHA STANDARDS.
- ALL PROPOSED LUMINAIRES SHALL BE SUPPLIED WITH A PHOTOCCELL.
- THE CONTRACTOR SHALL LEAVE 10 FEET OF SLACK FOR ALL SIGNAL CABLES IN EVERY HANDHOLE FOR ANY NECESSARY SIGNAL HEAD RELOCATION DUE TO FUTURE WIDENING.
- VIDEO CAMERA LOCATION/ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
- ALL HANDHOLES FOR NON-INVASIVE PROBES SHALL BE INSTALLED WITH THE LONG DIMENSION OF THE HANDHOLE PERPENDICULAR TO THE ROADWAY AS SHOWN.
- VIDEO DETECTION CAMERAS "B" AND "C" SHALL BE PROGRAMMED FOR PRESENCE AND SET BACK DETECTION.

TOD NO: XX647-12
SHA NO: CA208B53
MD 231 @ Skipjack Road/Sixes Road



STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 231 (HALLOWING POINT ROAD) AT
SKIPJACK ROAD / SIXES ROAD
PRINCE FREDERICK, MARYLAND

TRAFFIC SIGNALIZATION PLAN

SCALE 1" = 20' ADVERTISED DATE 11/2011 CONTRACT NO. XX6475185

DESIGNED BY EMP COUNTY CALVERT
DRAWN BY EMP LOGMILE 04023101.53
CHECKED BY MTS TMS NO. J961
F.A.P. NO. TOD NO.

TS NO. 4810 DRAWING SG-01 OF 02 SHEET NO. 01 OF 02

PLOTTED: Friday, September 30, 2011 AT 04:18 PM
FILE: I:\PROJECTS\4014255\0160\Drawings\TRAFFIC\SG-P000_MD231.dgn

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